MC SERIES

OWNERS MANUAL

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INTRODUCTION

Congratulations on your purchase of the RBH MC Series Theater loudspeaker system! Your speakers are the result of many years of research and development dedicated to producing high quality products for home audio and audio/video systems.

This manual contains features, setup recommendations and specifications for RBH MC Series loudspeaker systems. We recommend that you thoroughly read through the material contained in this manual before connecting your loudspeakers. This will insure that you have a good understanding of how to setup your speakers for optimum performance.

BREAK IN PERIOD

Plan on giving your speakers 10-15 hours of playing time to adequately break in. As the speakers break in, the driver suspension will loosen up. The result will be an increase in low frequency response, improved definition, clarity and detail.

F E A T U R E S

At the heart of our MC Series loudspeaker system is a proprietary aluminum cone bass/midrange driver (speaker). The unique aluminum cone material combines stiffness, low mass, and self damping properties in a manner that allows virtually uncolored presentation of program material. A powerful magnet, extended voice coil and bumped back plate give the bass/midrange driver high excursion capability, which ensures accurate dynamic reproduction. The drivers are shielded by using a steel cup and an additional magnet to cancel any stray magnetic field that many cause interference with video equipment such as tube televisions.

For high frequencies, a proprietary aluminum dome tweeter was developed. This tweeter uses Ferro Fluid® liquid cooling allowing the tweeter to handle greater power while retaining detail and accuracy.

Steep acoustic slope crossovers are used to integrate drivers. A polyswitch, or current limiting device, is used in the crossover to prevent damage to the tweeter if overdriven.

RDAB™ Resonance Damping Alloy Baffle technology will dampen cabinet vibrations and minimize tweeter diffraction, all while giving a visually pleasing look to the speaker.

Cabinets are constructed of MDF. Front baffles are extra thick to prevent any excess acoustic radiation and have a narrow profile to minimize cabinet diffraction. Large oversized binding posts ensure a good electrical contact. Sophisticated computer modeling and measurement techniques are used extensively in the RBH loudspeaker design process.

SETUP SUGGESTIONS

When attaching speaker wire to the terminals, we suggest removing the black and red plastic protective inserts. To do this, loosen the binder from the post by twisting counter-clockwise until the binder is removed completely from the post. Remove the plastic inserts by pulling straight out, then replace the binder to the post and twist clockwise. A hole is provided in the post to allow for speaker wire to slide into, then the binder is tightened until the wire is secure. Remember to strip the insulation from the wire prior to inserting into the post.

In order to extract the best possible sound from your speaker system, it is important to determine where the speakers will sound best in your listening room. Room reflections from the floor, ceiling and side walls influence the balance, imaging and overall sonic quality at the listening position. We suggest that you experiment with speaker placement to determine which location offers the best overall sound. The diagram on page 5 should be used as a general guide when setting up a home theater system and follows the descriptions in the following paragraphs. Some speakers shown in the diagram will not always be applicable to your individual system.

The model MC-6CT comes with stabilizing feet. To install, place each foot so that the center hole of the foot is over each pilot hole on the bottom of the cabinet. Use the supplied screws to attach, noticing that the pilot hole is drilled on an angle. This is done so that the foot will be pulled in tight against the speaker cabinet. Install either the supplied spike or rubber mount as necessary into the threaded insert.

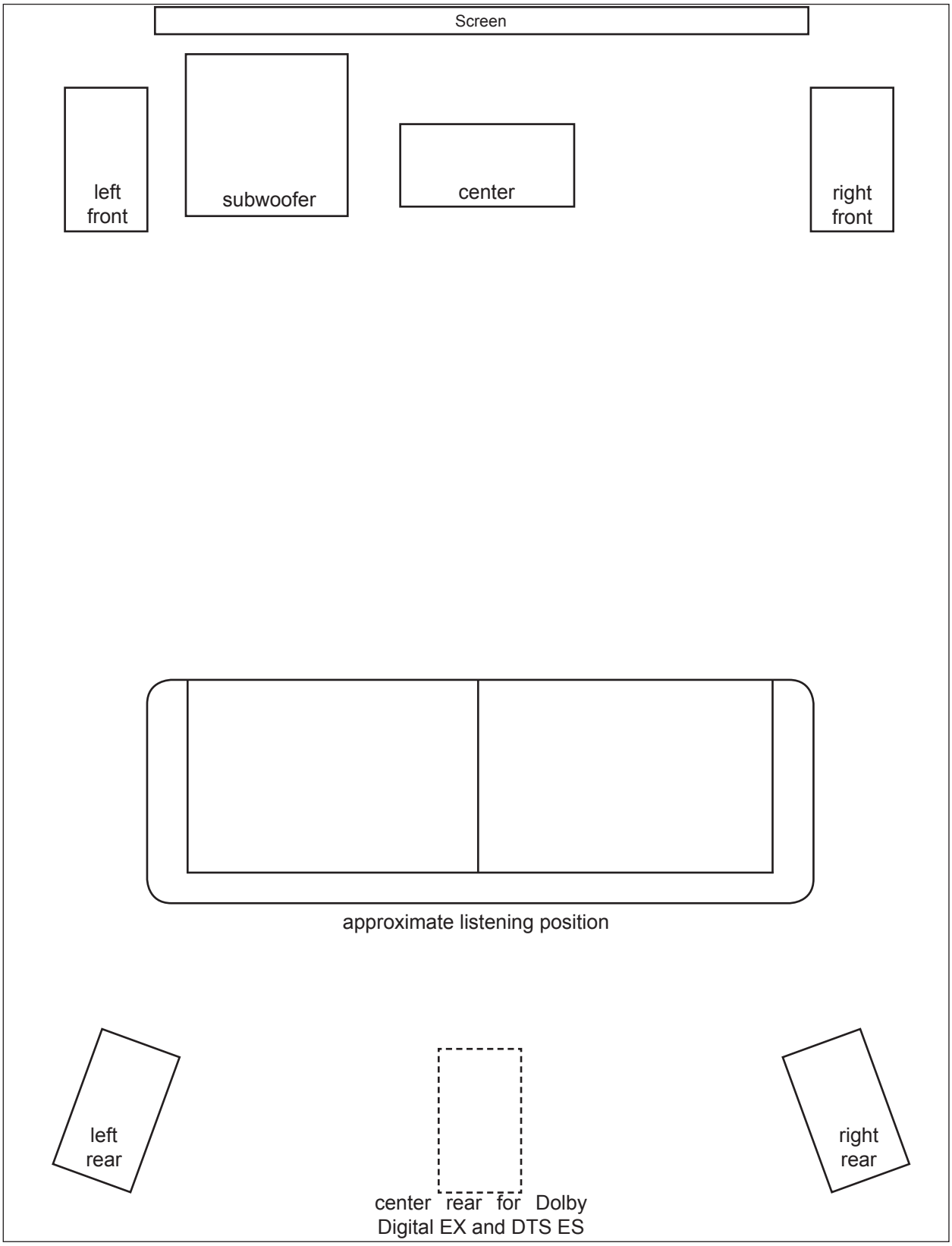
SETUP SUGGESTIONS CONTINUED

As a starting point, we recommend placing your left and right MAIN speakers at least 15 inches from the back wall and 7 feet apart from each other. The distance from the listening position to each speaker should be close to the distance that separates the two main speakers. Angling the speakers inward towards the listening position may give a more spacious and realistic sound stage.

The CENTER channel speaker should be placed in the center between both left and right main speakers. Often this positioning dictates placing the speaker either directly above or below a television monitor. Since all MC Series products are video shielded, the center speaker may be placed close to a television without cause for concern. If using an MC-414C, the speaker may be in a horizontal (lying down) or vertical position.

SURROUND* speakers may be placed either above, behind or to the sides of the listening position. The listening position should be at the center of both surround speakers. For best performance you may want to experiment with angling the surround speakers either towards or away from the listening position.

*There are several different surround formats available. Dolby Pro-Logic, Pro-Logic II, Dolby Digital and DTS generally have a 5 speaker plus subwoofer requirement. Dolby Digital EX and DTS ES add a center rear speaker. Please consult your audio/video professional to determine which system is best for you and how many speakers you will require.


Screen
left front
subwoofer
center
right front
approximate listening position
left rear
center rear for Dolby Digital EX and DTS ES
right rear

TROUBLESHOOTING

Problem	Possible Cause	Remedy
No sound from speakers	Speaker wire not connected	Make sure wire is connected at both the speaker and the amplifier observing polarity
	Speaker selector on amplifier is not on	Activate proper selector on amplifier
No sound from one speaker	Balance control not completely centered	Place balance control in the center
	Speaker wire not connected	Check all connections at the amplifier and speakers
Very little bass and/or imaging	Speakers are wired out of phase	Check entire system for proper polarity and make adjustments as necessary

CARE & CLEANING

To maintain speaker appearance, we recommend an occasional application of furniture grade polish to the wood surface of the cabinet. To clean dust from the grille cloth, use a vacuum with a brush attachment.

SPECIFICATIONS

Model	Frequency Response	Sensitivity	Recommended Amplifier Power	Drive Units	Crossover Frequencies	Impedance	Dimensions	Weight
MC-4C	85Hz-20kHz ± 3dB	84dB 1w/1m	50-100 Watts	1) 1" aluminum dome tweeter 1) 4" aluminum cone midwoofer	3000 Hz	8 Ohms	8½"H x 5.¼"W x 7¼"D	7½ lbs.
MC-414C	85Hz-20kHz ± 3dB	88dB 1w/1m	50-120 Watts	1) 1" aluminum dome tweeter 2) 4" aluminum cone midwoofers	3500 Hz	6 Ohms	5¼"H x 14½"W x 7¼"D	13 lbs.
MC-6C	50Hz-20kHz ± 3dB	87dB 1w/1m	50-120 Watts	1) 1" aluminum dome tweeter 1) 6 ½" aluminum cone midwoofer	3000 Hz	8 Ohms	12½"H x 7¾"W x 8¾"D	17 lbs.
MC-616C	50Hz-20kHz ± 3dB	89dB 1w/1m	50-180 Watts	1) 1" aluminum dome tweeter 2) 6 ½" aluminum cone midwoofers	3000 Hz	6 Ohms	7¾"H x19½"W x 8¾"D	24 lbs.
MC-6CT	40Hz-20kHz ± 3dB	87dB 1w/1m	50-200 Watts	1) 1" aluminum dome tweeter 1) 6½" aluminum cone midwoofer 2) 6½" aluminum cone woofers	100 Hz, 3000 Hz	6 Ohms	40"H x 7¾"W x 11½"D	55 lbs.

W A R R A N T Y

Your RBH Sound MC Series loudspeaker is covered by a limited warranty against defects in materials and workmanship for a period of 5 years from the original date of purchase. This warranty is provided by the authorized RBH Sound dealer where the loudspeaker was purchased. Warranty repair will be performed only when your purchase receipt is presented as proof of ownership and date of purchase. Defective parts will be repaired or replaced without charge by your dealer's store or the location designated by your dealer that is authorized to service RBH products. Charges for unauthorized service and transportation cost are not reimbursable under this warranty. This warranty becomes void if the product has been damaged by alteration, misuse or neglect. The warrantor assumes no liability for property damage or any other incidental or consequential damage whatsoever which may result from the failure of this product. Any and all warranties of merchantability and fitness implied by law are limited to the duration of this express warranty. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

It is the policy of RBH Sound to continuously incorporate improvements into products. All specifications are subject to change without notice.

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REDEFINING THE WAY YOU EXPERIENCE SOUND